

Patent Abstracts of Japan

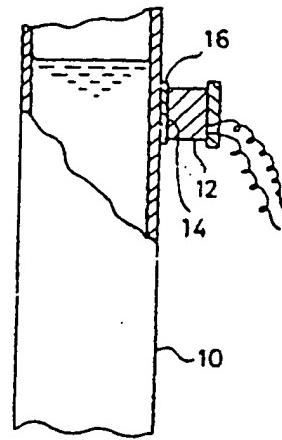
PUBLICATION NUMBER : JP2002905
 PUBLICATION DATE : 08-01-90
 APPLICATION NUMBER : JP880145509
 APPLICATION DATE : 13-06-88

VOL: 14 NO: 136 (P - 1021)
 AB. DATE : 14-03-1990 PAT: A 2002905
 PATENTEE : NAOYUKI OMATOI
 PATENT DATE: 08-01-1990

INVENTOR : OMATOI NAOYUKI

INT.CL. : G01F23/28; G01N29/02;
 G01N29/24; G01S7/52

TITLE : METHOD OF FIXING ULTRASONIC TRANSDUCER



ABSTRACT : PURPOSE: To make it possible to reduce time change in propagation characteristics of ultrasonic waves by providing deoxime-rubber-seal adhesive agent between the vibrating surface of an ultrasonic transducer and the wall surface of a material to be measured.
CONSTITUTION: A deoxime-rubber-seal adhesive agent 16 which is silicone-rubber based adhesive agent is applied on a vibrating surface 14 of an ultrasonic transducer 12. Thereafter, the transducer is compressed to the outer wall surface of a material to be measured 10. The transducer 12 is held by using a tightening band in order to keep the compressing state. When the compressing state is continued for about 6-12 hours, the adhesive agent 16 is hardened, and the transducer 12 is fixed to the material to be measured 10. Therefore, the tightening band can be removed. Thus, the transducer can be used for a long time under high temperature. The adhesive agent is infiltrated into the rough attaching surface, solidified and stabilized. Since external vibration is absorbed, the transducer is not separated. The stabilized propagation characteristics of the ultrasonic waves can be obtained.